7/26/9,

EXPANDED SITE INSPECTION WORK PLAN

FOR:

Jennison-Wright Corp.

PREPARED BY

PRE-REMEDIAL UNIT
DIVISION OF LAND POLLUTION CONTROL
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62794

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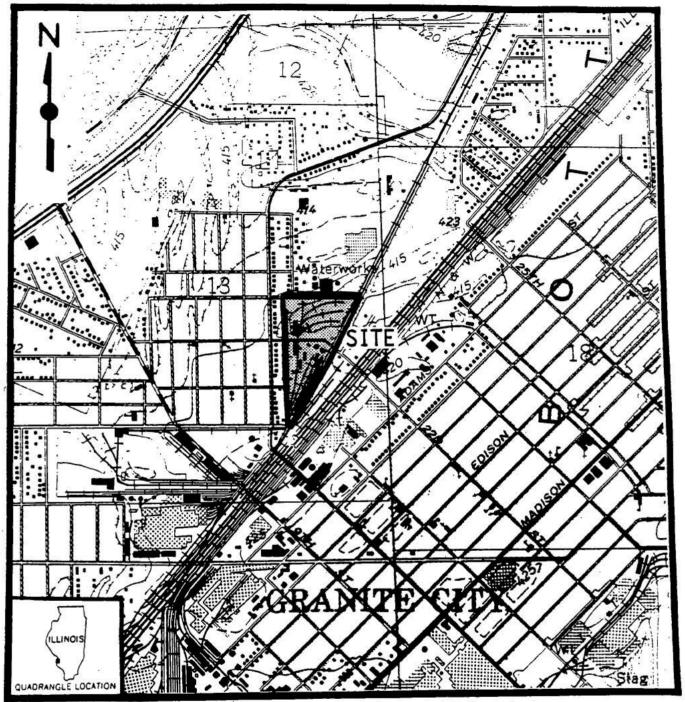
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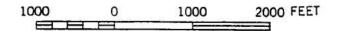
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I. SITE INFORMATION

I. GENERAL	•
Site Name: <u>Jennison-Wright Corporation</u>	ILD# <u>006282479</u>
Site Location: 22nd Street and Railroad Tracks	LPC# <u>1190400008</u>
Granite City, Illinois	Work plan prepared by:
Madison County	Gregory W. Dunn
Estimated inspection date: <u>July 1991</u>	Work plan reviewed by
*************	******
II. THE ASSIGNMENT (briefly describe the objective how they are going to be accomplished).	s of the inspection and
The purpose of an Expanded Site Inspection is to ga	ther additional
information on the site concerning migration pathwa	ys and targets
associated with those pathways. To accomplish this	task, soil/sediment,
air and possible groundwater samples will be collec	ted to determine the
impact the site has on migration pathways and nearb	y targets. Samples
will be collected on-site and in a nearby residenti	al area.
************	*******
III. <u>SITE DESCRIPTION</u> (briefly describe the site, unique geological features, source(s) of cont disposal and current status of activities).	
Jennison-Wright Corporation is located on 22nd Stre	et, just east of
Missouri Avenue, in Granite City, Illinois (Madiso	n County). The
facility is surrounded by residential areas to the	west and north, an
equipment storage area to the south, and a vacant 1	ot to the east. The
Granite City water treatment facility also lies to	the north of the site.
The geology of the area is characterized by silty c	lays, with interbedded
layers of sands and clay to 20 feet. Medium, coars	e and fine grained
sands and gravels are present from 20 feet to 115 f	eet, which is the top



SOURCE: IEPA, 1988.BASE MAP: USGS 1982 Granite City, Illinois Quadrangle, 7.5 Minute Series



of the limestone. The aquifer of concern in the Granite City area is the sand and gravels from 20 feet to 115 feet. Sources of contamination on the north side of the facility include: railroad tank car, contaminated soil associated with the drip tracks and tie drying areas and an old lagoon on the northeast side of the site. Sources of contamination on south side of the facility include: two above ground tanks, 22nd street lagoon, Jennite pit lagoon, drums located in two buildings, buried tank car, pentachlorophenol treatment area, asbestos piles and contaminated soil associated with treatment. The three lagoons were used for the disposal of creosote contaminated wastewater, waste coal tar pitch and other materials. All three lagoons were filled with soil, bricks and other materials in the early to middle 1970's. The facility has not been in operation since October of 1990. The facility filed for bankruptcy in 1990, due in part to the lack of funds available to clean-up the environmental problems at the site. Surplus equipment and other scavengeable materials were sold at an auction held in August of 1990 at the Jennison-Wright facility. The facility currently has a seal order placed on the property by the Illinois EPA to control scavengers from entering the site and being exposed to the hazardous substances and asbestos on-site. ************************************

IV. SITE HISTORY (briefly describe the history of the site including previous owners, reported injuries, complaints, govt. action).

Site operations began around 1915, when Midland Creosote began treating railroad ties and wood blocks with creosote and pentachlorophenol. Midland Creosote sold the facility to Jennison-Wright Creosoting in 1951 and operations continued under Jennison-Wright Creosoting until 1981. At

this time J-W Creosoting entered into a purchase agreement with Jennison-

Wright Corporation of Pepper Pike, Ohio. Jennison-Wright Corporation operated at the site from 1981 until 1990, when they filed for bankruptcy. The Illinois EPA placed a Seal Order on the site on November 19, 1990 to deter access to the site by neighborhood children and scavengers. U.S.EPA contractor, CDM Federal Programs Corp., has taken approximately 35 cubic yards of creosote contaminated soil from the site to conduct treatability tests on the material for land ban restrictions. The operations at the site included the treatment of railroad ties and wood blocks with creosote from 1910 until closing. The pentachlorophenol process began in the early 1970's and was replaced by zinc naphthenate in 1984. An asphalt driveway sealer, "Jennite", was also manufactured at the facility using coal tar derivatives and montmorillonitic clay. The "Jennite" product was manufactured at the site beginning in the early 1960's.

II. SAFETY CONSIDERATIONS

- II. <u>CHEMICAL HAZARDS AT SITE</u> (briefly identify those chemicals that are known or are suspected to be present, include their state and physical characteristics).

A variety of chemicals have been found in samples taken on-site and in

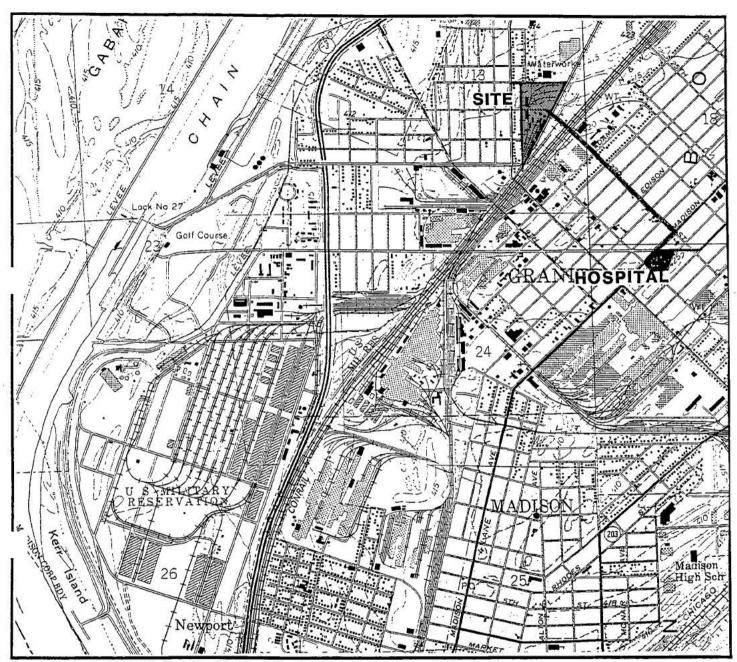
the backyards of nearb	y homes (see attached summary table for the
compounds found). The	se compounds may be found in soil/sediment, tank
cars, tanks, drums, and	
*****	***************
	ATORY PROTECTION (identify the level of personal ill be used, including anticipated modifications).
Level D protection wil	l be used when sampling the backyards of nearby
homes with continuous	air monitoring during the sample collection. If
an increase occurs, the	e following will be implemented:
	0-5 units over background Level C
	5-50 units over background Level B
	50-500 units over background Level A
Activities on the sout	n part of the site will be undertaken in modified
Level C, with two tyvel	ks (due to asbestos) and a full face respirator
and cartridges for asb	estos conditions. Continuous air monitoring will
also be conducted with	the same levels above strictly adhered to. The
above ground tank samp	ling and buried tank car sampling will be
conducted in Level B w	ith chemical resistant suits, gloves, boots and
self-contained breathing	ng apparatuses (SCBA). Continuous air monitoring,
will be conducted duri	ng this phase of sampling, with the same levels
-1	
above implemented.	**************
IV. EMERGENCY INFORMAT	ION
Nearest Hospital:	St. Elizabeth Medical Center (Phone) 618-798-3000
Hospital Location:	2100 Madison Avenue
	Granite City, Illinois
Ambulance Service:	Granite City Ambulance Service(Phone) 618-877-4747
Fire Service:	Granite City Fire Department (Phone) 618-876-4545
Police:	Granite City Police Department(Phone) 618-876-6111

COMPOUNDS FOUND ON-SITE AND IN BACKYARDS

Pentachlorophenol Naphthalene Phenanthrene Pyrene Acenapthene Benzo(a) anthracene Benzo(b)fluoranthene Benzo(a)pyrene Chromium Lead 2,3,7,8-TCDD 2-Methylphenol 2,4-Dimethylphenol 2-Nitroaniline 3-nitroaniline Benzene Ethylbenzene

Xylene(total)

2-Methylnaphthalene Dibenzofuran Fluoranthene Fluorene Anthracene Chrysene Benzo(k) fluoranthene Indeno(1,2,3-cd)pyrene Copper Zinc Phenol 4-Methylphenol Benzoic Acid Acenaphthylene 2,4-Dinitrotoluene Toluene Stryene Benzo(g,h,i)perylene



BASE MAP:USGS, 1982 Granite City IL-MO. 7.5 Minute Quadrangle Map.

HOSPITAL ROUTE

III. FIELD ACTIVITIES

I. TEAM ASSIGNMENTS

	NAME	Responsibility
	Greg Dunn	Project Manager
	Tim Murphy	Safety Officer/Sampler
	Bob Casper	Sampler
	Kim Nika	Sampler
****	Bruce Ford ************************************	Sampler
II.	FIELD WORK PROPOSED (check all that apply)	
	Activity	<u>Procedures</u>
	X Ambient Air Sampling (OVA, HNU, etc.)	IEPA Methods Manual pp.19-23
	Groundwater Sampling	IEPA Methods Manual pp.1-5
	Surface Water Sampling	IEPA Methods Manual pp.6-10
	X Soil/Sediment Sampling	IEPA Methods Manual pp.13-18
•	Tap Water Sampling	IEPA Methods Manual pp.11-12
	X Slope Determinations	IEPA Methods Manual pp.24-25
	Water Level Measurements	IEPA Methods Manual p.31
	X Perimeter Survey	IEPA Methods Manual p.33
	X Site Inspection	IEPA Methods Manual pp.34-39
	Soil Borings/Well Installation	IEPA Methods Manual pp.26-30
	X Public Interviews	IEPA Methods Manual p.40
	Groundwater Flow Determination	IEPA Methods Manual p.32
	X Decontamination Procedures	IEPA Methods Manual pp.41-56
	Others:	

IV. SAMPLING

Ι.	PROCEDURES (briefly describe the procedures the inspection team will employ in their collection of environmental samples).
	All samples will be collected in accordance with the Illinois
	Environmental Protection Agency's Site Inspection QAPP. Soil/
	sediment samples will be collected with stainless steel spoons.
	Samples from the tank and tank car will be collected by glass jars.
	Air samples will be collected from a PS1 (puff sampler) air
	sampling device with the aid of Illinois EPA's Air Pollution
	Control Division. Meteorological data will be gathered from either
	an on-site station or the Granite City Water Department.
Ι.	LOCATION OF SAMPLES (identify the number of samples, their type and

II. <u>LOCATION OF SAMPLES</u> (identify the number of samples, their type and their location. The attached map should identify these locations).

<u>Type</u>	<u>Location</u>
Soil	see attached map
Soil/Sediment_	see attached map
Soil Duplicate	see attached map
Soil Blank	see attached map
Air Samples	see attached map
	Soil Soil/Sediment Soil Duplicate Soil Blank

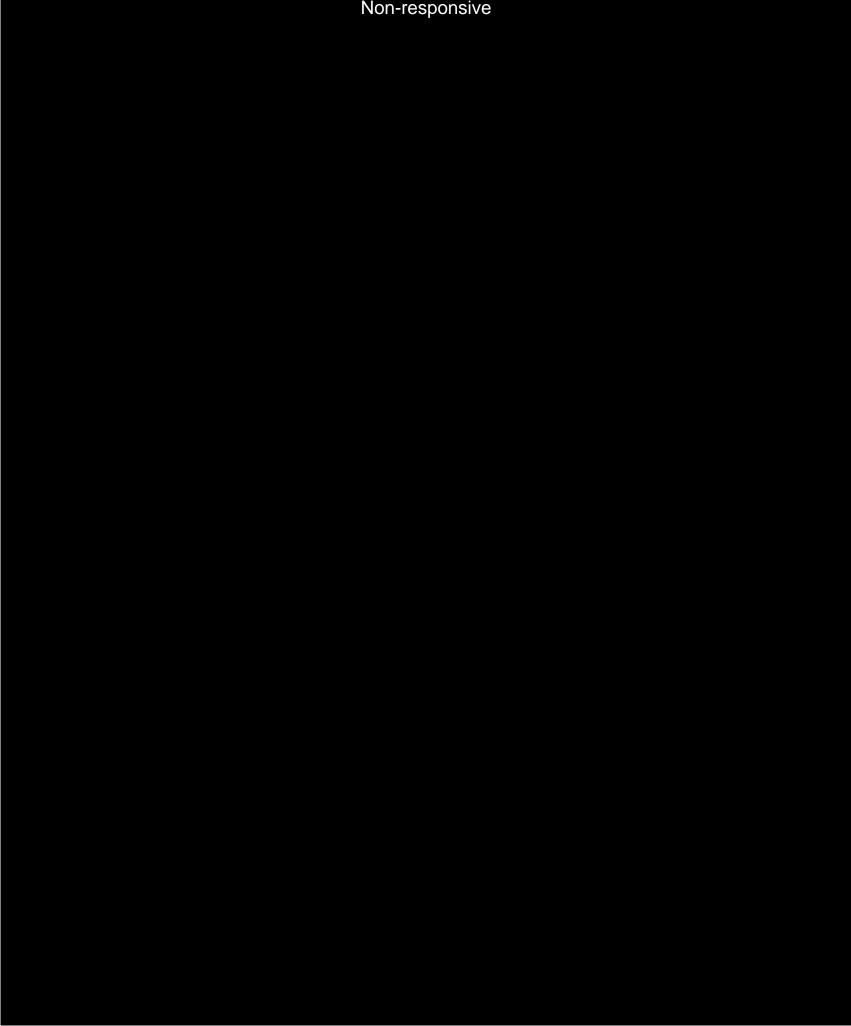
III. ANALYTICAL SERVICES (identify the laboratory that will perform the analysis of the samples taken at the site, include requested analysis)

Volatiles and semi-volatiles will be analyzed by IEPA's Springfield

lab and the inorganics will be analyzed by IEPA's Champaign lab.

Dioxin analytical service will be provided by one of U.S. EPA's

Special Analytical Service contract laboratories.





- 11. On-site sample northwest drying area
- 12. On-site tank car, east portion of north side
- 13. Above ground tank on north side of south part
- 14. Buried tank car on north side of south part
- 15. On-site soil in southwest portion of site
- 16. Background sample west of site approximately four blocks

BLUE DOTS (air samples)

- 1. Background location for air monitoring device
- On-site location for air monitoring device
- 3. On-site location for air monitoring device
- 4. Off source location for air monitoring device
- * Disregard yellow dot on east portion of south side of facility.
- ** one duplicate and one blank will be included in 18 total samples.

ATTACHMENT I

RECORDS AND DOCUMENTATION (Check the records or documents that will be generated during this project)

<u>X</u>	Work Plan
X	Safety Plan
X	Sampling Plan
X	Equipment Checklist
<u> </u>	Log Book
X	Chain of Custody Records
X	Sample Analysis Records
<u> </u>	Photographs
	Drilling Logs
<u> </u>	Correspondence
X	Personal Interview Tapes or Transcripts
X	Maps
X	Instrument Calibration Records
	Procurement Documents
	Site Inspection Form (2070-13)
X	HRS Scoring Package
	Other (specify)
	Other (specify)